

**Amendments to the Specification:**

Please add the following new line after line 18 on page 6:

**Brief Description of the Figures**

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claims 1-28 (canceled)

Claim 29 (new):

A cyclonic evaporator apparatus for separating two or more components of a feed material prior to or simultaneously with at least partially vaporising one of the components, said cyclonic evaporator including a swirl generator portion for imparting a swirling motion to the feed material and an evaporator portion having one or more evaporator tubes, said swirl generator portion having at least one inlet located at or towards one side of the swirl generator for admitting feed material containing the at least two components to the swirl generator in a direction substantially tangentially to the centre line of the cyclonic evaporator, an arrangement located within the generator for imparting a swirling motion to the feed material about the centre line of the cyclonic evaporator, and an outlet located at or towards one end of the swirl generator for discharging the at least two components of the feed material from the swirl generator in a swirling motion generally axially in a direction substantially parallel to the centre line of the evaporator wherein at least one of the components of the feed material is subjected to at least partial flash vaporisation on being discharged from the outlet of the swirl generator into the evaporator to further assist in separating the two components from each other so that the components are discharged from the swirl generator into the evaporator at least partially separated into at least two streams in which one stream forms a central core flow path and the other stream is an outer radial flow path.